Colour Tiles



Objective: Demonstrate and explain the meaning of ratio concretely, pictorially and symbolically. Demonstrate and explain the meaning of percentage concretely, pictorially and symbolically. Materials: Colour tiles.

- To model a ratio, take the correct numbers of tiles from the box and create a set of tiles:
- For example ... the ratio of yellow to blue is 4 to 1 ... take out four yellow tiles and one blue tile and place them in a row.
- Now, add another row like the first. There is still 1 blue tile for every four yellow tiles, however we have used 10 tiles in all. Keep adding more rows and listing the equivalent ratios.
- To extend this to percents, simply keep adding tiles in the correct ratios until you have used 100 tiles in all (*per* means *out of*, and *cent* means one *hundred*). Now answer the questions: how many are yellow (80, thus 80%), and how many are blue (20, thus 20%).
- Find four equivalent ratios for each: 2 to 3 3 to 7 3 to 1
- Estimate, calculate or model the percentage of each colour in the three ratios above.